



Cambridge Lower Secondary Mathematics

Pre Knowledge Test

Basic Foundation / Mental Math Calculation

Instruction : Answer all the questions below.

Time allocated : 30 minutes

Total marks : / 60

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Convert the following fractions into decimal.

1. $\frac{1}{2} =$
2. $\frac{2}{5} =$
3. $\frac{5}{8} =$
4. $\frac{3}{10} =$
5. $\frac{11}{20} =$

Convert the following mixed fraction to improper fraction.

6. $3\frac{1}{3} =$
7. $2\frac{4}{7} =$
8. $4\frac{6}{11} =$
9. $17\frac{1}{2} =$
10. $24\frac{3}{5} =$

Convert the following improper to mixed fraction.

11. $\frac{9}{2} =$
12. $\frac{18}{5} =$
13. $\frac{48}{9} =$
14. $\frac{115}{13} =$
15. $\frac{300}{25} =$

Simplify following fraction in one step.

16. $\frac{6}{9} =$
17. $\frac{12}{30} =$
18. $\frac{18}{36} =$
19. $\frac{25}{100} =$
20. $\frac{98}{126} =$

Solve the following questions.

21. $\frac{5}{8} + \frac{2}{8} =$
22. $\frac{3}{7} + \frac{4}{7} =$
23. $\frac{4}{7} + \frac{5}{7} =$
24. $\frac{12}{15} + \frac{2}{15} =$
25. $\frac{18}{20} + \frac{6}{20} =$
26. $\frac{5}{10} + \frac{2}{5} =$
27. $\frac{8}{42} + \frac{2}{7} =$
28. $2\frac{7}{11} + \frac{2}{11} =$
29. $4\frac{5}{12} + \frac{3}{4} =$

30. $3\frac{4}{5} + \frac{1}{3} =$
31. $\frac{2}{7} - \frac{1}{7} =$
32. $\frac{4}{5} - \frac{1}{5} =$
33. $\frac{4}{9} - \frac{2}{9} =$
34. $\frac{5}{10} - \frac{1}{5} =$
35. $\frac{6}{9} - \frac{1}{18} =$
36. $\frac{6}{10} - \frac{8}{70} =$
37. $3\frac{7}{9} - \frac{5}{11} =$
38. $2\frac{7}{8} - \frac{5}{9} =$
39. $1\frac{7}{10} - \frac{6}{12} =$
40. $6\frac{4}{7} - 2\frac{1}{4} =$
41. $\frac{1}{3} \times \frac{2}{5} =$
42. $\frac{5}{7} \times \frac{2}{9} =$
43. $\frac{9}{15} \times \frac{2}{5} =$
44. $\frac{2}{9} \times \frac{3}{8} =$
45. $\frac{5}{12} \times \frac{4}{25} =$
46. $\frac{18}{25} \times \frac{35}{36} =$
47. $1\frac{3}{4} \times \frac{6}{8} =$
48. $5\frac{3}{5} \times \frac{10}{36} =$
49. $2\frac{3}{5} \times \frac{4}{7} =$
50. $4\frac{2}{3} \times 1\frac{5}{8} =$
51. $\frac{4}{6} \div \frac{5}{8} =$
52. $\frac{3}{5} \div \frac{2}{4} =$
53. $\frac{5}{9} \div \frac{3}{7} =$
54. $\frac{4}{9} \div \frac{8}{15} =$
55. $\frac{8}{11} \div \frac{4}{7} =$
56. $\frac{3}{5} \div \frac{2}{25} =$
57. $\frac{15}{28} \div \frac{25}{36} =$
58. $1\frac{6}{12} \div \frac{2}{7} =$
59. $2\frac{6}{9} \div \frac{24}{30} =$
60. $3\frac{5}{10} \div 1\frac{2}{5} =$